

FAA System-Wide Information Management

Use of Communities of Interest

**Mike Hritz
Systems Engineer
FAA SWIM Program
ICNS April 2007**



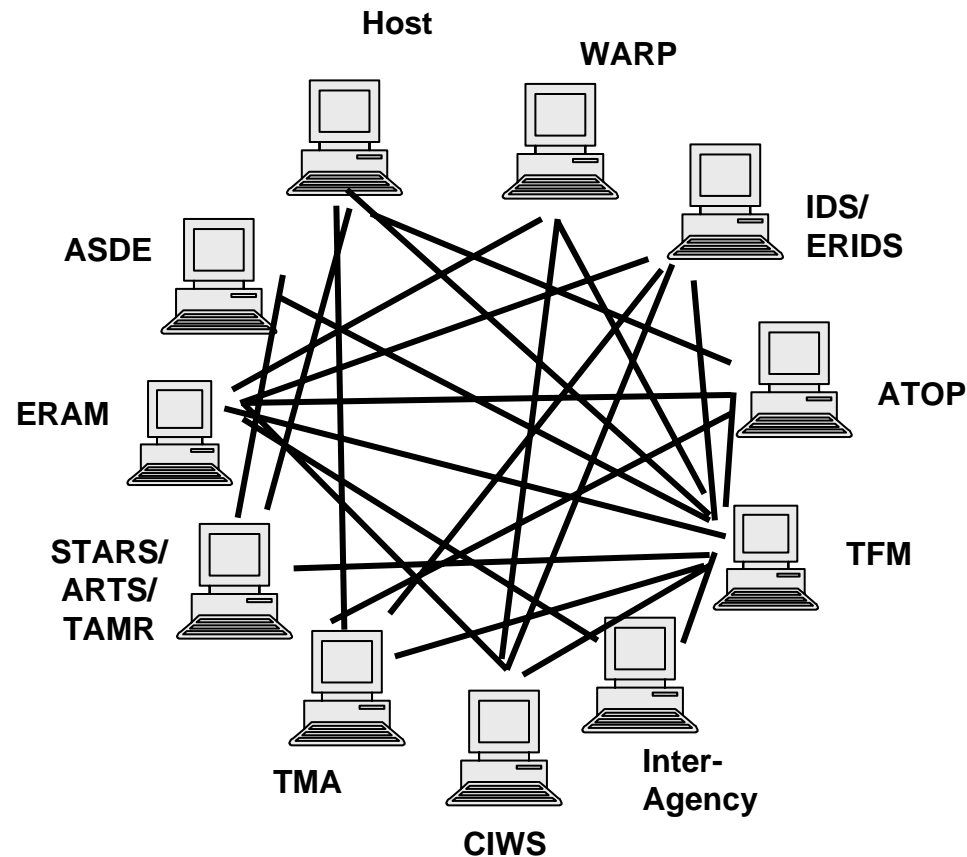
Outline

- **SWIM Concept**
- **SWIM Strategy**
- **Need for COIs**
- **COI Concept**
- **SWIM COI Organization**
- **SWIM COI Functions**
- **SWIM Segment 1 COIs**
- **Beyond SWIM Segment1**

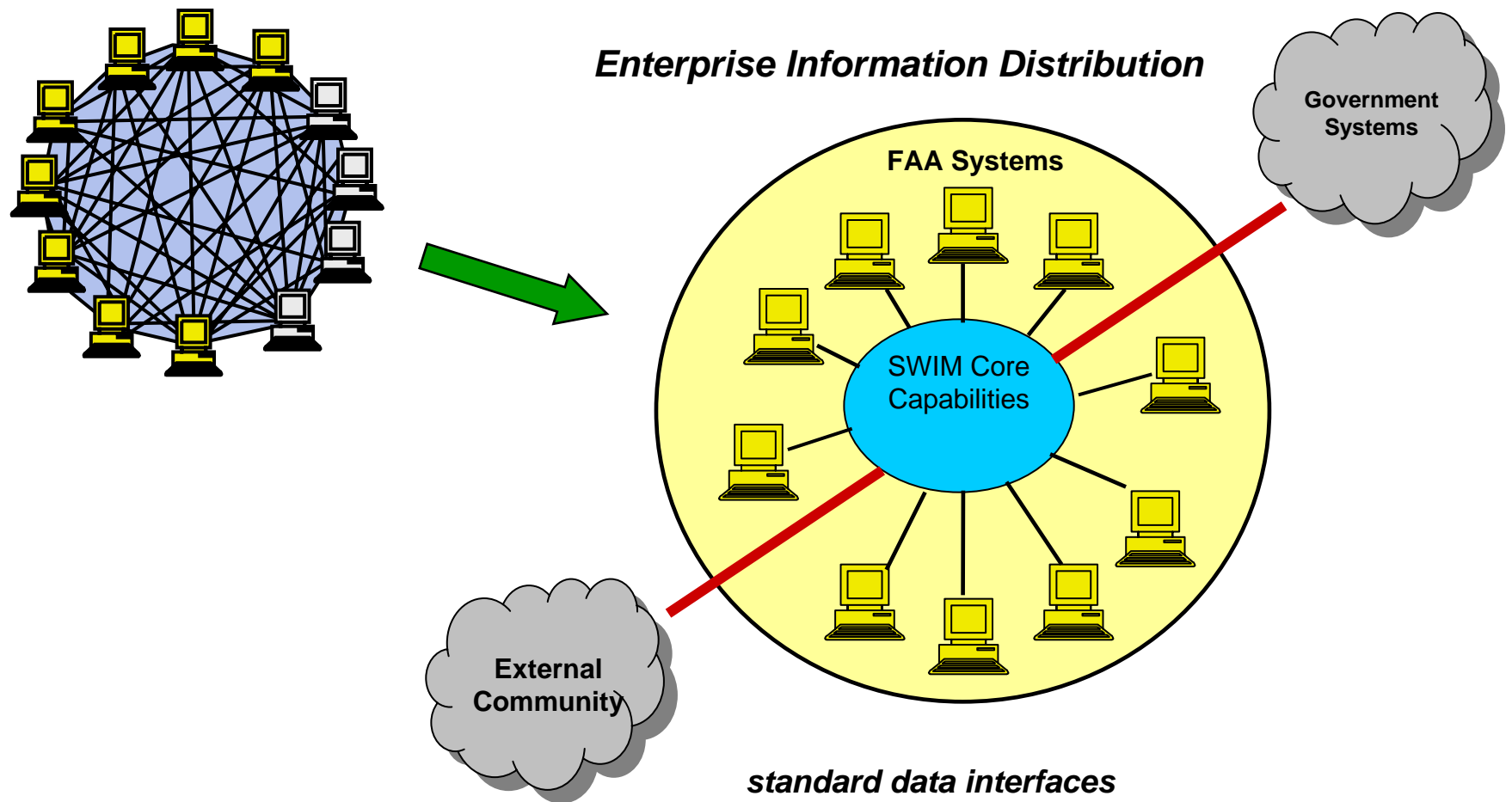


Problems with Current FAA Information Sharing

Each connection is custom and does not satisfy future data exchange needs

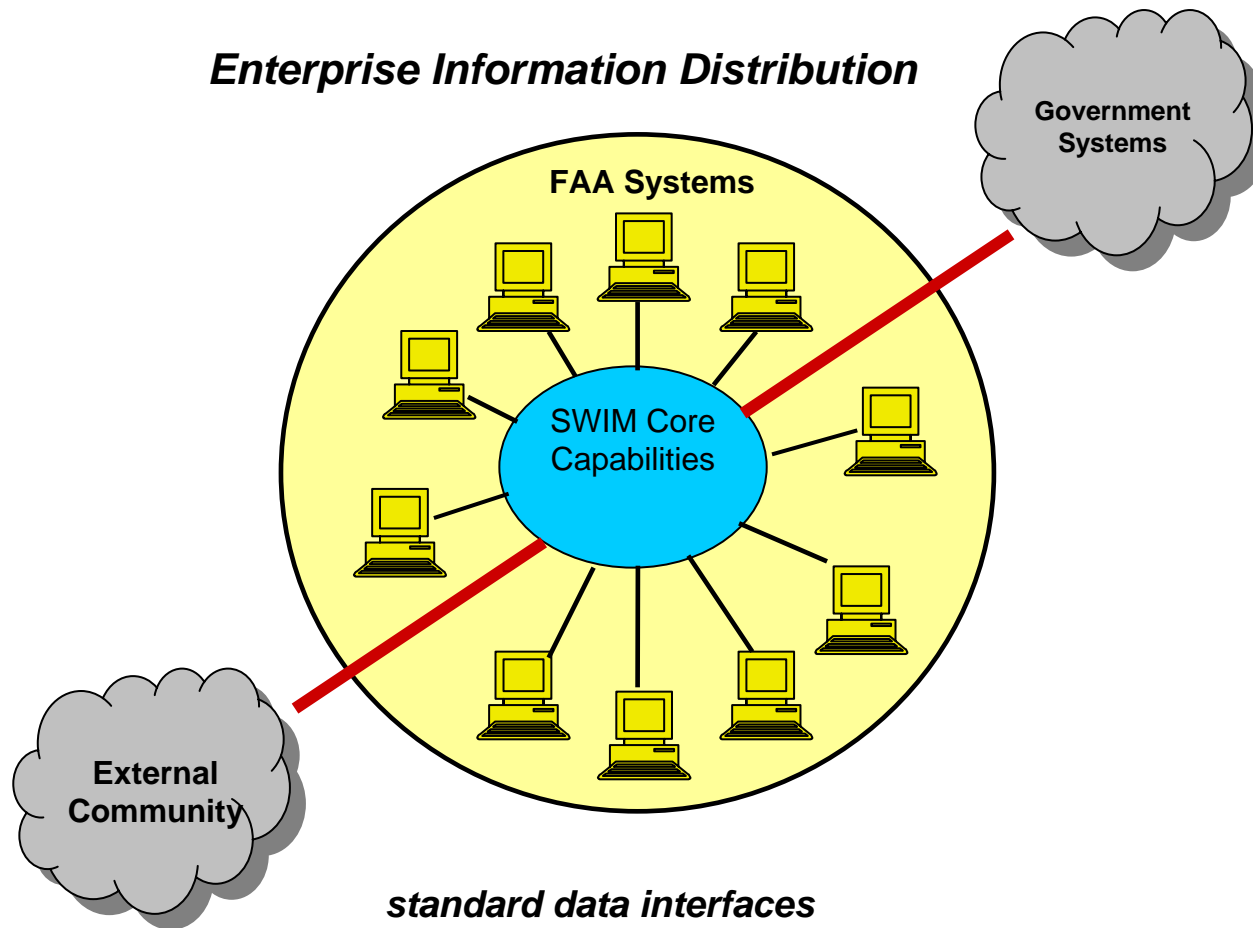


FAA Future with SWIM

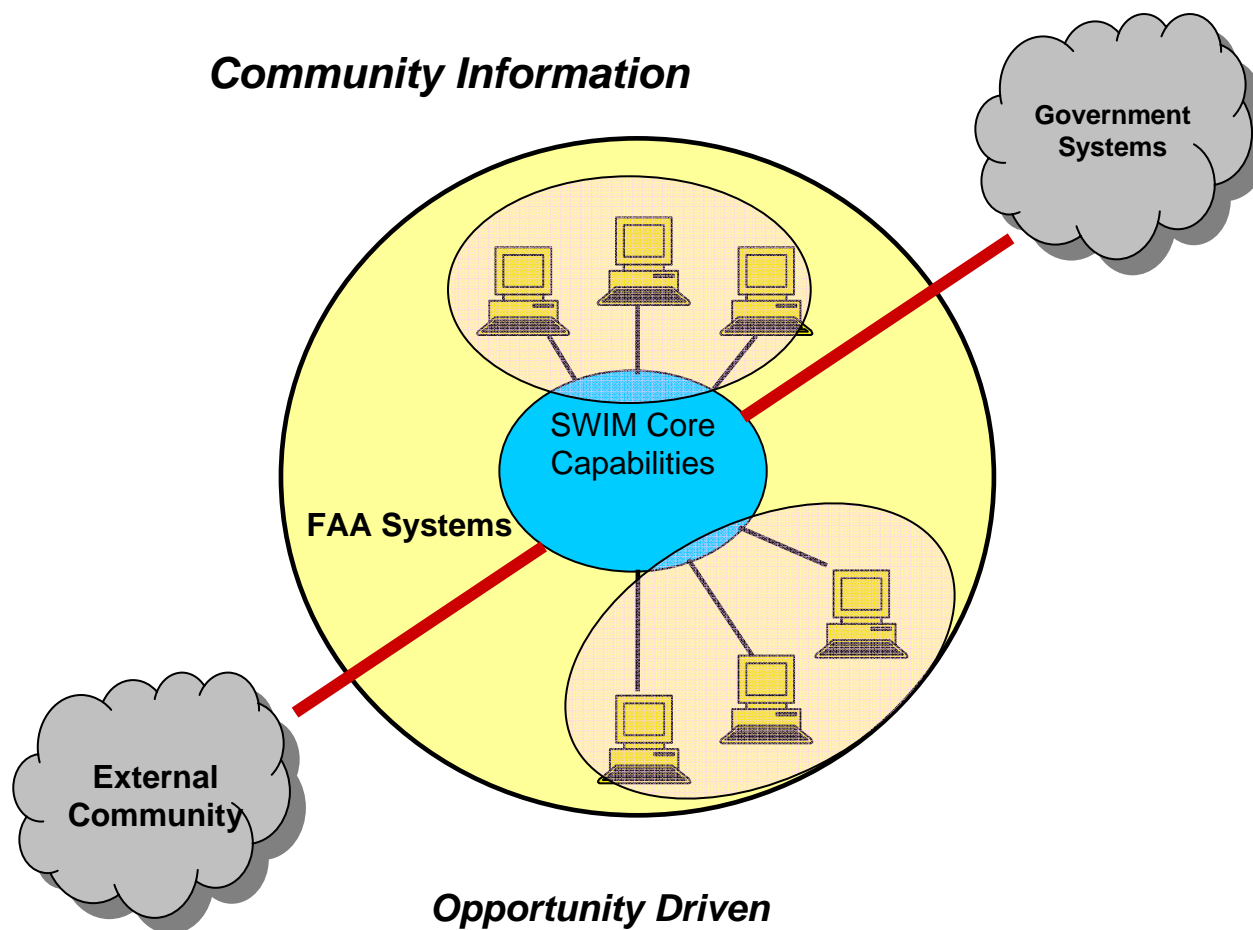


Build it They Will Come

Enterprise Information Distribution



Business Case Based



The Community Of Interest (COI) Concept

- **Guidance for Implementing Net-Centric Data Sharing:**
 - DoD 8320-G, 12 Apr 06
 - Definition for COI
 - “collaborative group of users who must exchange information in pursuit of their share goals, interests, missions or business processes and who therefore must have shared vocabulary for the information they exchange”
 - Roles, Responsibilities, Relationships
- **Appropriate to SWIM**
 - COI Core Values
 - FAA Organizational Stovepipes

Community of Interest Engineering

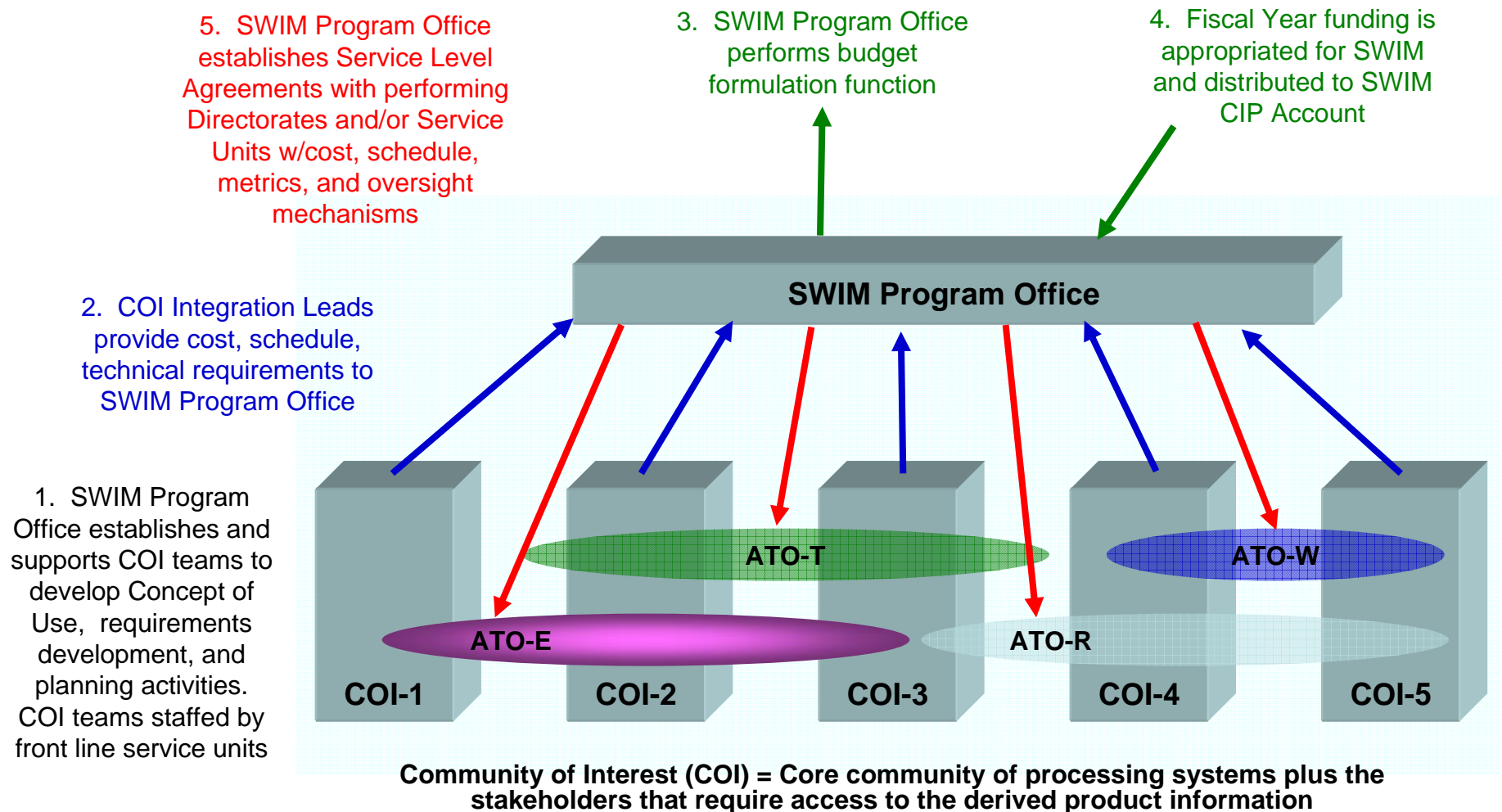
- **Community of Interest = core community of processing systems plus the stakeholders that require access to the derived product information**
- **Based on information needs, not systems**
 - Flight and Flow
 - Weather
 - Surveillance
 - Aeronautical Information
 - NAS Management
- **Community of Interest Near Term Activities**
 - Begin examining decision and data requirements and concepts of use
 - Assess ongoing activities that can be leveraged on a broader scale or serve as a roadmap for other communities
 - Identify Segment 1 capability candidates

SWIM COI Organization

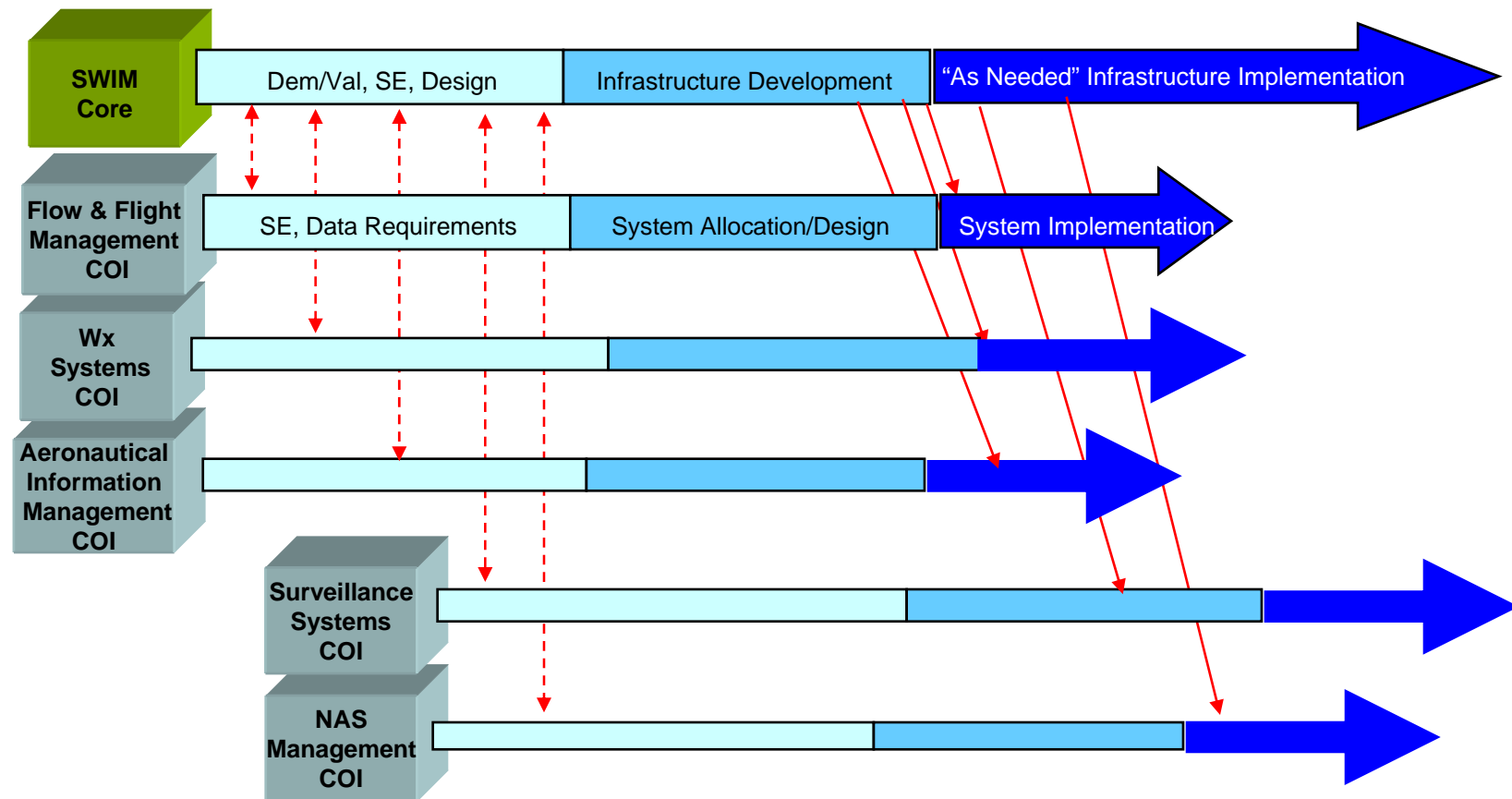
- **COI Leadership**
 - Implementation LOB Rep Co-Lead
 - System Engineering Co-Lead
- **COI Membership**
 - Producers of Information
 - Consumers of Information
 - Stakeholders
 - Advisory Members



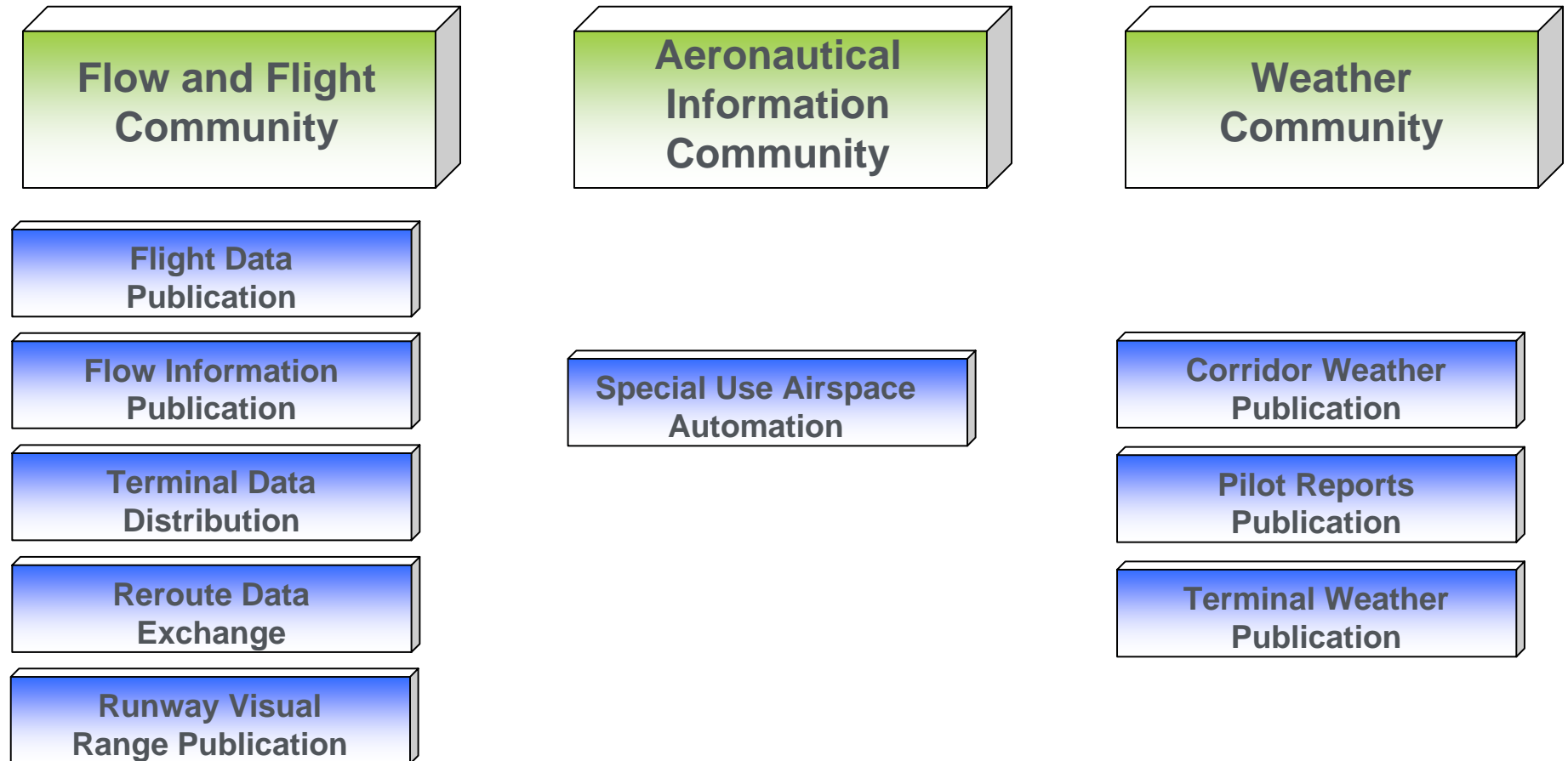
SWIM Planned Program Execution



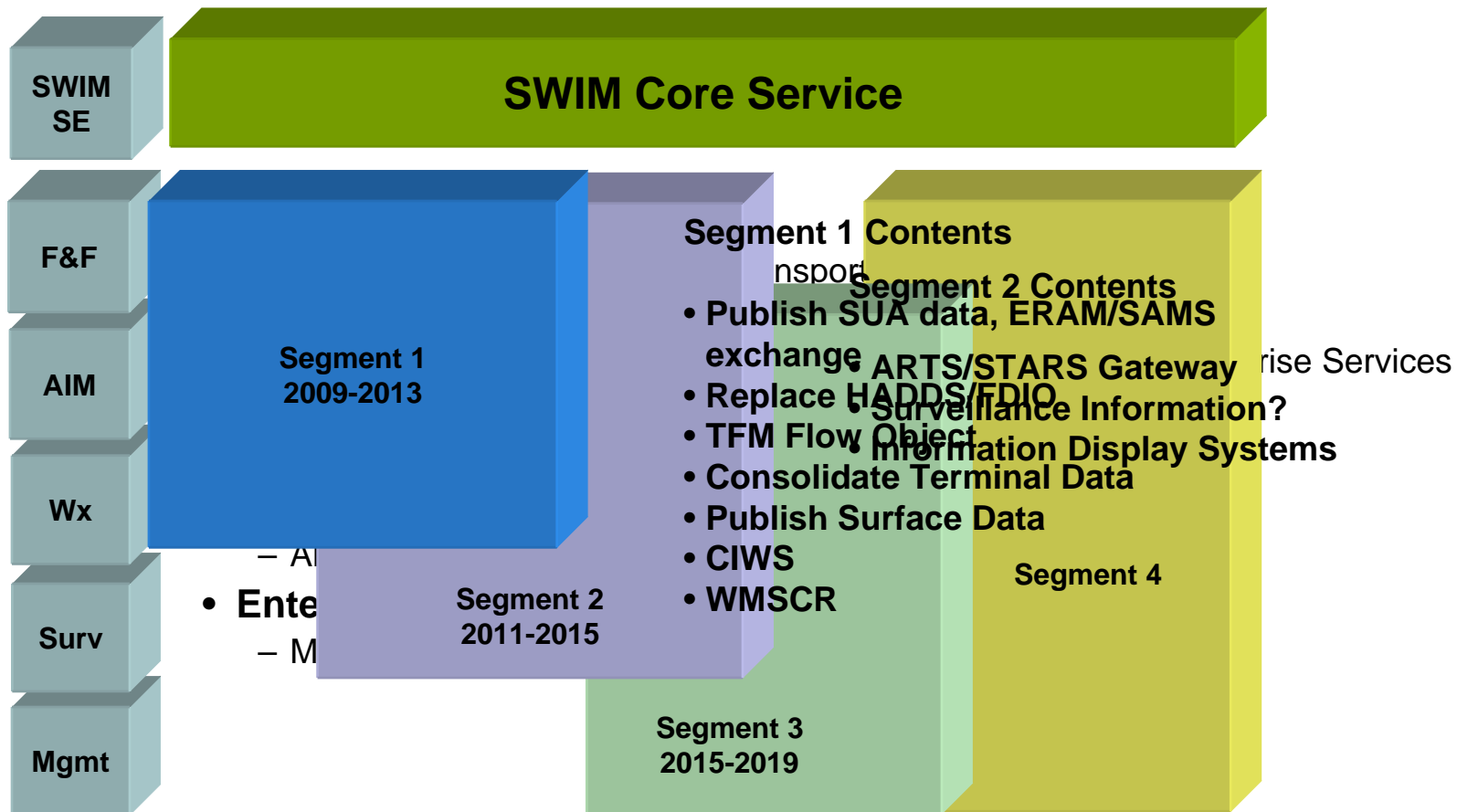
Program Management Paradigm



SWIM Segment 1 Services

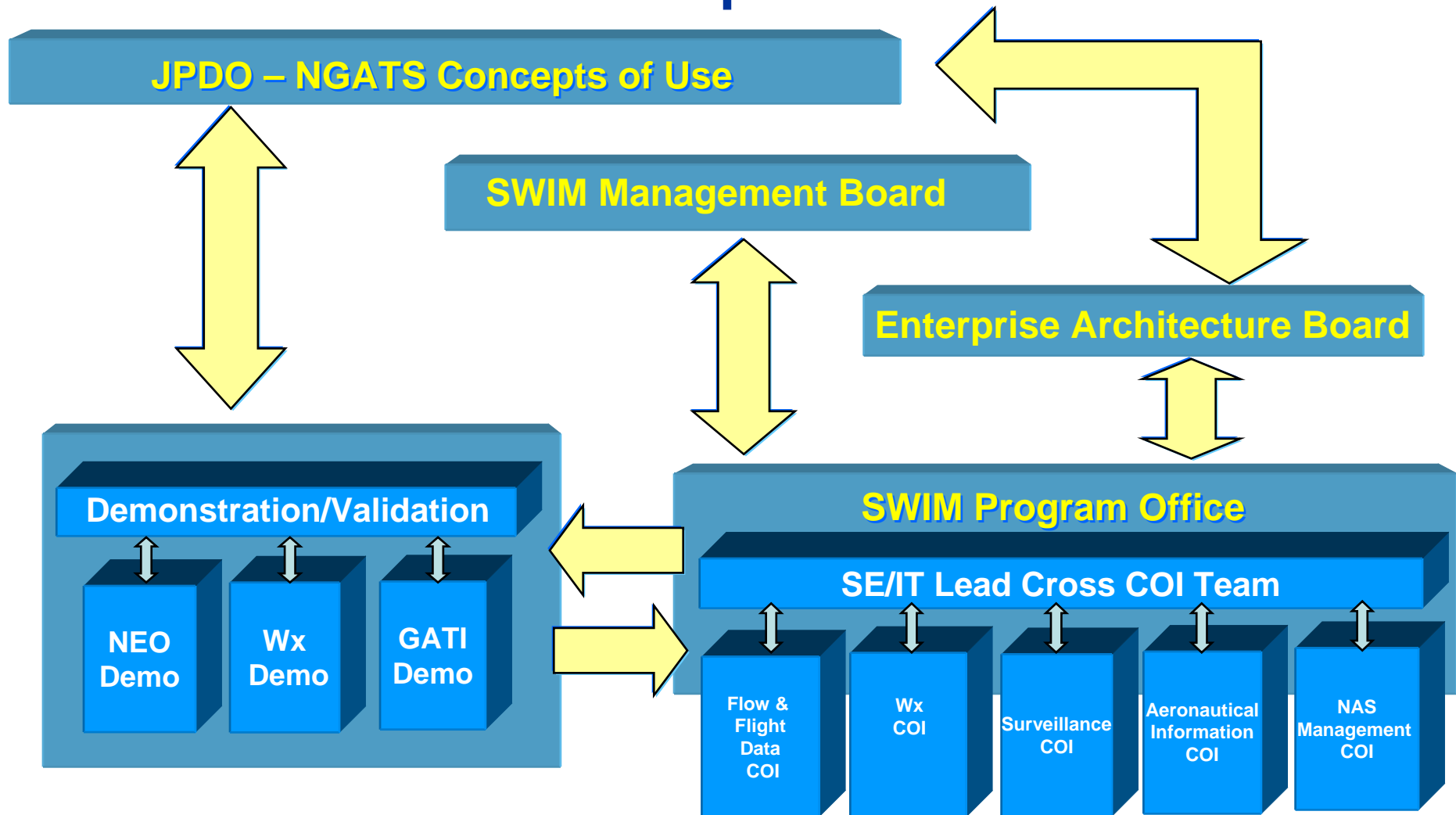


SWIM Execution by Segments



Segment Contents are not yet final

SWIM Cross COI Concept



Cross COI Purpose/Objectives

- **Address Cross COI/Cross Domain Issues**
 - Cross COI/intra-Domain Solutions
 - Enterprise Security
- **Introduce SWIM Technical/Policy Guidance**
 - Cost/Benefit Calculation Templates
 - COI Guidance
 - Data Architecture Framework/Core Services
- **Interface with FAA Enterprise Architecture Board/CSEs/JPDO**
 - Align SWIM Implementation with NGATS
- **Recommend Implementations for SWIM Program Segments**
 - Selection Criteria
- **Interface with SWIM Demo Team**

Plans for COIs beyond SWIM Segment 1

- **Future COIs**
- **Future SWIM Segment Development**
 - Business Process Development
- **Roles Responsibilities in Governance**